IBM 3740

IBM 3740
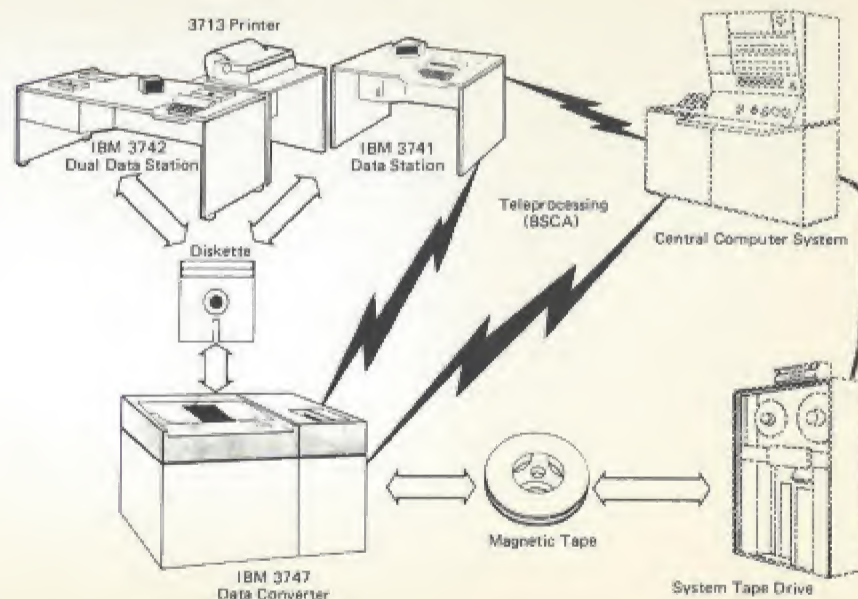**Data Entry System**

3740 Data Entry System Description

The IBM 3740 system is a family of products designed for centralized/decentralized and remote teleprocessing data entry environments.

The 3740 Data Entry System consists of the following machines.
- 3741 Data Station Models 1 and 2
- 3742 Dual Data Station
- 3713 Matrix Printer
- 3747 Data Converter

The new IBM Diskette is the recording media used in the 3740 system. The diskettes are written on the data stations. The data on the diskettes can then be transferred to one-half inch magnetic tape off-line on the data converter.

The 3740 data stations have combined modular packaging and Large Scale Integration (LSI) in the microprogram controlled processors. The processor logic is densely populated on a single Field Replaceable Unit (FRU).

3741 Description

The IBM 3741 is a single operator key entry station used to prepare data on IBM Diskettes.

The 3741 is available in two models; the Model 2 has teleprocessing capabilities through a BSCA (binary synchronous communications adapter).

A six-line CRT provides both operator and CE information.

3741 Features

Model 1
- Variable length data records — maximum of 128 characters
- Ten program levels
- Six lines — 240 characters CRT
- No delay buffered key entry
- Program chaining
- Expanded function keyboard
- Operator guidance

Model 2
All the basic features of Model 1 plus:
- Binary synchronous communications adapter
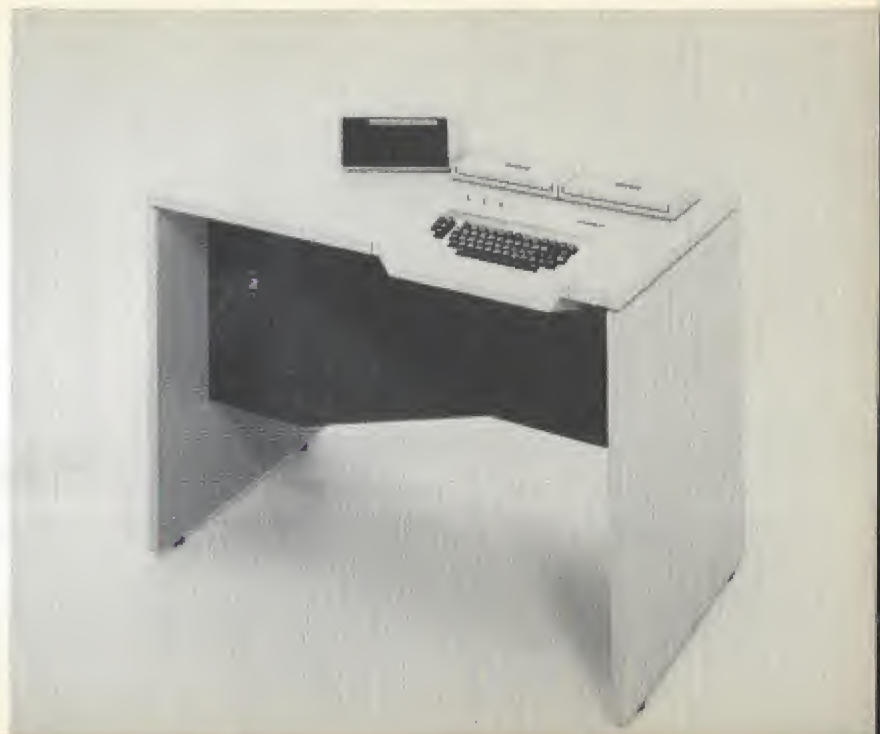- 1200 to 2400 bauds
- BSCA error display

3741 Optional Features

Models 1 and 2
- Verify and production statistics
- Field totals, self-check Modulus 10 and 11, and initialization
- Expansion feature (for printer and second disk)
- Matrix printer
- Second disk drive

Model 2 Only
- Keylock
- Badge reader
- Synchronous clock
- Terminal identification

3742 Description

The 3742 is a dual data station which records operator keyed data on IBM Diskettes.

Each operator station contains a diskette unit for recording data.

Dual CRT displays data, error codes, data storage addresses, and CE information.

3742 Features

- 80-character fixed record length
- Verify
- Production statistics
- Six program levels
- Expanded function keyboard
- Program chaining
- No delay buffered key entry
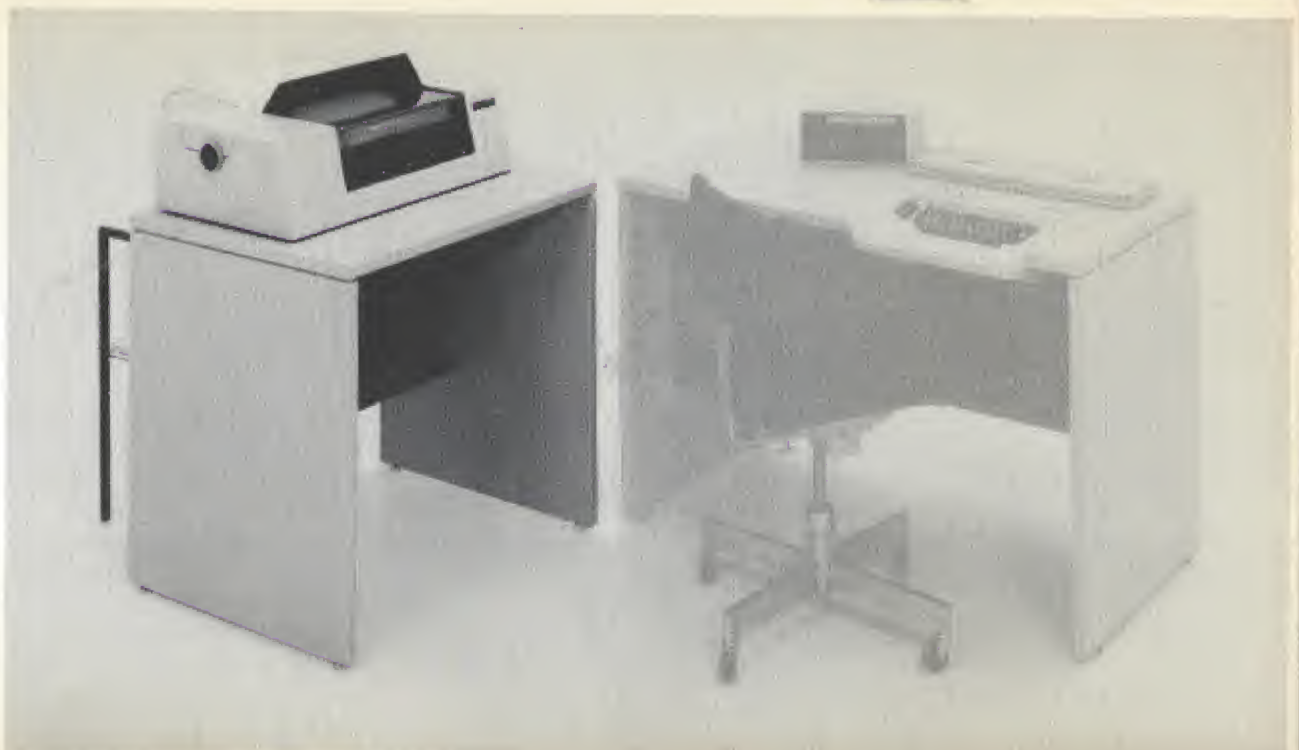- Search end of data and data address

3742 Optional Features

- Self-check Modulus 10 and 11 single feature
- Off-line field totals
- Diskette initialization
- Diskette copy
- Search content

3713 Description

The 3713 Matrix Printer can be attached to the 3741 Models 1 and 2 for hard copy printing.

3713 Features

- 132-character print line
- Serial printing at forty characters per second
- Six printed lines per inch
- Can print six-part continuous stationery

3747 Description

The IBM 3747 Data Converter converts the data from the IBM Diskette to one-half inch computer compatible magnetic tape.

Up to twenty IBM Diskettes may be placed in the 3747 autofeed unit. This permits continuous data conversion without operator attention.

Operator guidance codes are visible in a four-position LED (light emitting diode) display which is also used as a CE diagnostic aid.

3747 Optional Features

- Tape labeling
- Synchronous clock
- BSCA

System Serviceability

- Graphic integrated manuals provide a complete improved layout maintenance library
- Maintenance analysis procedure (MAP) charts will isolate failures to a field replaceable unit (FRU)
- Large Scale Integration (LSI) packaging for minimum FRUs
- No scheduled PM
- New electronic keyboard
- In-line microprogrammed diagnostics
- BSCA wrap test and error logout
- 3747 diskette loaded diagnostics
- Operator media and error procedures
- CRT and LED CE displays
- New improved general logic probe

System Reliability

- Minimum number of moving parts
- Non-mechanical keyboard
- Soft error recovery on tape/disk operations

System Technologies

- Field Effect Transistor (FET)
- Transistor Transistor Logic (TTL)

Operator Training

The CE will provide operator training on the 3740 system at the time of installation.

CE Career Path

The 3740 system components are "Data Recording" FE Career Path products.

Recording Media Description

The IBM Diskette is a flexible magnetic disk used by the 3740 system as the data recording media.

The magnetic oxide coated disk is approximately 8" in diameter, and can store 1898 128-character data records.

IBM
Diskette

IBM®